

Weekly News





only some of the envisioned outcomes. Read Article

How to Build a Photonic Quantum Computer

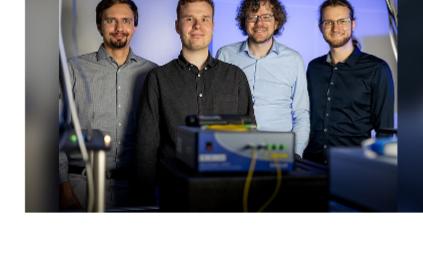
Expectations for quantum computers are high: They are supposed to outperform digital computers and pave the way for solutions that go far beyond the capabilities that artificial intelligence already delivers. They are predicted to crack unbreakable codes, find new materials for superconductors, and help develop medicine for the next pandemic. These are



Microdisplays As part of the Fraunhofer Society's HOT project (High-

Researchers Boost Transparency in

performance transparent and flexible micro-electronics for photonic and optical applications), researchers succeeded in the development of OLED microdisplays with 20% transparency. Recent work has pushed that further, enabling 45% transparency in a CMOS OLED microdisplay. Read Article



Quantum Internet Researchers from Leibniz University Hannover have sent

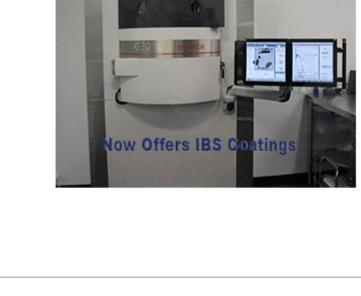
entangled photons and laser pulses of the same color over a

Method Combines Conventional and

single optical fiber. According to the researchers, this is the first time the feat has been achieved. The work could enable the next generation of telecommunications technology, the quantum internet, to be routed via optical fibers. Read Article

Northrop Grumman SYNOPTICS





HE Laser Mirrors & Beamsplitters



Perkins Precision Developments LLC

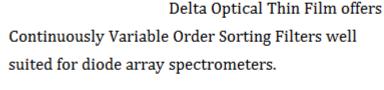
dichroic laser mirrors, and output couplers exhibit both low absorption and high damage thresholds

(20J!), making them ideal for use with high-energy Nd:YAG and fiber lasers as well as other highpower pulsed and CW laser systems. Visit Website Request Info Looking for something else? Check the Photonics

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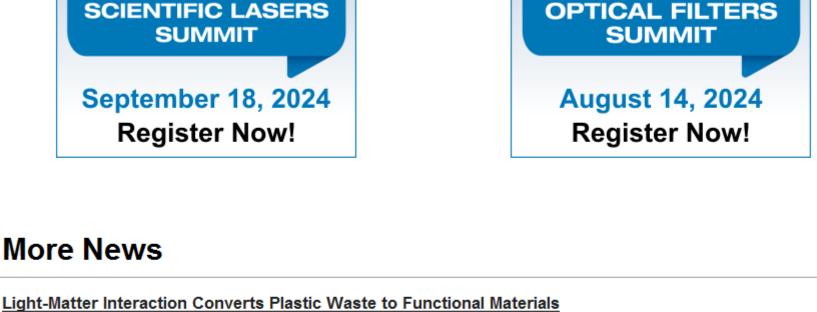
Delta Optical Thin Film A/S



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September 18, 2024

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spectra

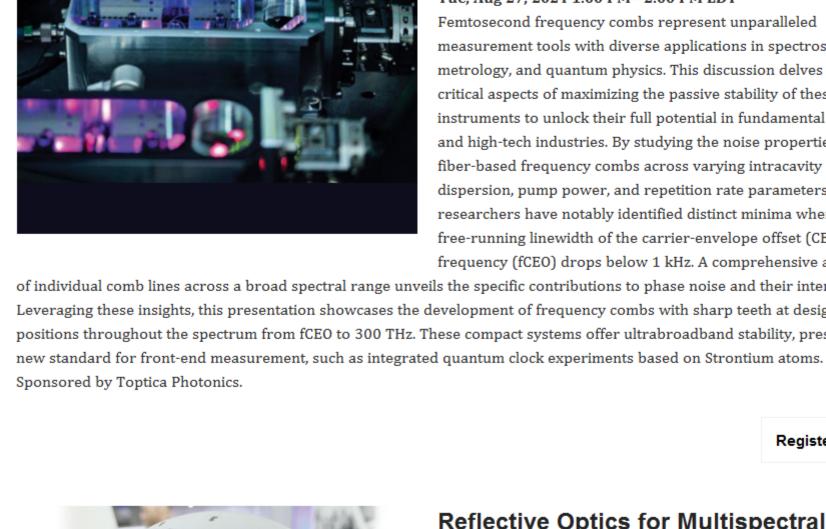
Sivers Semiconductors to Spin off Photonics Business

TroGroup Acquires Luxinar

Latest Webinars

LightSolver Awarded \$13.7M to Advance All-Optical Supercomputer

Industry Innovations in Fiber-Based Frequency Combs: Ultrabroadband



measurement tools with diverse applications in spectroscopy, metrology, and quantum physics. This discussion delves into the critical aspects of maximizing the passive stability of these instruments to unlock their full potential in fundamental science and high-tech industries. By studying the noise properties of fiber-based frequency combs across varying intracavity dispersion, pump power, and repetition rate parameters,

Femtosecond frequency combs represent unparalleled

Comb with Sub-3-kHz Free-Running

Tue, Aug 27, 2024 1:00 PM - 2:00 PM EDT

Linewidths

Systems

free-running linewidth of the carrier-envelope offset (CEO) frequency (fCEO) drops below 1 kHz. A comprehensive analysis of individual comb lines across a broad spectral range unveils the specific contributions to phase noise and their interplay. Leveraging these insights, this presentation showcases the development of frequency combs with sharp teeth at designated positions throughout the spectrum from fCEO to 300 THz. These compact systems offer ultrabroadband stability, presenting a Register Now

Reflective Optics for Multispectral EO

Large reflective optics are essential for high-performance multispectral electro-optics imaging systems in defense,

Wed, Aug 28, 2024 9:00 AM - 10:00 AM EDT

researchers have notably identified distinct minima where the

surveillance, and aerospace. These systems capture multiple wavelengths to improve target identification and combine data from various bands to offer a comprehensive environmental



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better than visible light, and they provide high-resolution

view, enhancing situational awareness. They excel in adverse conditions by penetrating haze, smoke, and challenging weather

imaging for detailed analysis and accurate decision-making. Utilizing advanced data fusion, these systems enhance target recognition and tracking, adapt to various mission requirements from surveillance to disaster response, and reduce operational costs by minimizing the number of necessary maneuvers. Join MKS Ophir for an insightful webinar on the latest advancements in reflective optics for multispectral systems. Presented by Register Now

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